

Dr. David Blackburn, PhD

Education

2007 – 2011: PhD in Space and Planetary Sciences, University of Arkansas, 4.0 GPA

2003 – 2007: BS in Computer Science with a Minor in Mathematics, Arkansas Tech University, 4.0 GPA, Summa Cum Laude

Professional Experience

08/2011 – Present: NASA Postdoctoral Fellow, Jet Propulsion Laboratory, Pasadena, California

08/2009 – 05/2011: Computer Support Assistant, The National Office for Research on Management and Evaluation Systems (NORMES), University of Arkansas

08/2007 – 05/2011: Graduate Assistant, University of Arkansas

06/2009 – 08/2009, 06/2010 – 08/2010: Intern, Jet Propulsion Laboratory, Pasadena, California

05/2008 – 06/2008: Physics Teaching Assistant, University of Arkansas

01/2008 – 05/2008, 07/2009-08/2009: Chemistry Teaching Assistant, University of Arkansas

Research Interests

clathrate hydrates and CO₂ ice stability on Mars and Iapetus, photometry, dynamic processes of the satellites of the Outer Solar System, and Vesta

Skills

C, C++, Java, Perl, Shell Script, PHP, HTML, Fortran, Haskell, and MySQL programming, systems analysis and design, server administration, website development, and integrating cross-platform systems.

Awards

07/2009 & 08/2010: NASA Space Grant Fellow

05/2007: Distinguished Academy Fellowship, University of Arkansas

Refereed Journal Articles

Blackburn, D.G., Buratti, B.J., Ulrich, R., 2011. A bolometric Bond albedo map of Iapetus: Observations from Cassini VIMS and ISS and Voyager ISS, *Icarus*, **212(1)**, 329-338.

Rivera-Valentin, E.G., **Blackburn, D.G.,** Ulrich, R., 2011. Revisiting the thermal inertia of Iapetus: clues to the thickness of the dark material, *Icarus*, in press, doi:10.1016/j.icarus.2011.09.006.

Blackburn, D.G., Buratti, B.J., Ulrich, R., Mosher, J., 2010. Solar phase curves and phase integrals for the leading and trailing hemispheres of Iapetus from the Cassini Visual and Infrared Mapping Spectrometer, *Icarus*, **209(2)**, 738-744.

Blackburn, D.G., Bryson, K., Chevrier, V.F., Roe, L.A., White, K.F., 2010. Sublimation kinetics of CO₂ ice on Mars, *Planetary and Space Science*, **58**, 780-191.